# 3com

# 3Com® OfficeConnect® Wireless 11g Access Point and OfficeConnect Wireless 11g PC Card

## Key Benefits

### High Performance and Wide Coverage

For simple, reliable, high-speed wireless connections, choose a winning combination: the 3Com® OfficeConnect® Wireless 11g Access Point and 3Com OfficeConnect Wireless 11g PC Card. Both wireless products support 802.11g wireless connections. Users can roam about the office—accessing network resources, the Internet, and e-mail—all at speeds up to 54 Mbps and at distances up to 100 meters (328 feet). That's almost five times the speed of existing 802.11b wireless products, which makes these products—ideal for audio, video, and multimedia applications.

### Compatible

The 802.11g wireless products are backward-compatible with 802.11b wireless products, since they both use the 2.4 GHz radio spectrum. Your existing wireless network investment is preserved because the 3Com OfficeConnect Wireless 11g Access Point supports 802.11b as well as 802.11g notebooks, PCs, and other wireless client devices. And these products are Wi-Fi certified, so they interoperate with Wi-Fi certified products from other vendors.

### Economical

Wireless networks can be a viable alternative to wired network expansions and an attractive solution for branch offices, remote sites, and classrooms. Since there's no need to drill holes or run Ethernet cabling, it's also cost-effective for temporary networks. The access point supports up to 128 simultaneous users, which gives you plenty of room to grow.

### Simple Installation and Use

Setup and operation are extraordinarily easy, making this product pairing an intelligent choice for first-time wireless users and small offices. The access point and PC Card install quickly and easily. Plug the access point into a power source and the wired LAN, and it's ready for use—typically no manual configuration is required. To speed setup for specific configurations, a single access point configuration can be propagated to all other access points on the network. The PC Card features Wireless Card Manager that lets you create profiles for your notebook users that reflect specific wireless LAN settings for each place they travel: users just select the proper profile and they are configured for connection.

### Secure

Advanced 256-bit WPA (Wireless Protected Access) encryption provides maximum security to the wireless LAN, while 40/64- and 128-bit WEP (Wireless Encryption Protocol) shared-key encryption helps protect data, and retains privacy of wireless transmissions with legacy wireless clients that do not support WPA.

### Reliable Connections

Dynamic rate shifting automatically matches the best connection speed in response to physical and traffic conditions, so wireless connections stay reliable. Clear Channel Select enables the access point to scan the spectrum and select the least busy channel—automatically.

## The simple, affordable way to network without wires

| Feature | Benefit |
|---|---|
| **Powerful** | |
| High-speed access and wide coverage | 802.11g standard supports speeds up to 54 Mbps—five times the speed of existing 802.11b wireless products—at distances up to 100 meters (328 feet)*. |
| User support | Access point supports up to 128 simultaneous users, allowing plenty of room for growth. |
| **Compatible** | |
| Backward–compatible to 802.11b | Preserves your existing wireless investment; the 3Com OfficeConnect Wireless 11g Access Point supports both 802.11g and 802.11b wireless users. |
| Wi-Fi certified | Helps ensure interoperability with Wi-Fi certified products from other vendors. |
| **Easy to Use** | |
| Simple installation | No need to drill holes or run Ethernet cabling to set up your network. |
| Wireless Card Manager | Lets you create profiles for each place notebook users travel, so they can move from one environment to the next without reconfiguring. |
| Access Point Discovery program | Automatically identifies and configures network devices with little to no manual configuration required. |
| Save and restore feature | Copies settings to wireless devices on the network, simplifying and speeding LAN setup. |
| Web-based administration | Familiar browser interface lets you configure and manage network devices from anywhere. |
| **Reliable** | |
| Dynamic rate shifting | Shifts between 54, 48, 36, 24, 18, 12, 9, and 6 Mbps (802.11g) and 11, 5.5, 2, and 1 Mbps (802.11b) connection speeds in response to physical conditions and RF interference. |
| Clear Channel Select | Selects the channel with the least traffic for problem-free connections. |
| **Secure** | |
| Encryption | Advanced 256-bit WPA encryption provides maximum wireless security, while 40/64-bit and 128-bit WEP shared key encryption protects legacy wireless clients. |

*Range depends on physical conditions, building construction, electrical devices in the area, and other environmental factors.

# Specifications

## 3Com OfficeConnect 11g Access Point-Specific Specifications

### Minimum System Requirements

Any computer with an Ethernet 10BASE-T, 10/100, or 10/100/1000 interface that is configured for Internet communication. Any operating system that supports an Ethernet connection with an IP stack (Installation CD requires Windows 98, Windows ME, Windows XP, or Windows 2000). For wireless access, PC or laptops with 802.11g or 802.11b adapter cards.

### Users Supported

128 simultaneous users

### Physical Ports

*LAN:* 1 10/100 Port

### Receive Sensitivity

*802.11g*
54 Mbps: -66 dBm
48 Mbps: -69 dBm
36 Mbps: -72 dBm
24 Mbps: -75 dBm
18 Mbps: -79 dBm
12 Mbps: -82 dBm
9 Mbps : -82 dBm
6 Mbps: -85 dBm

*802.11b*
11 Mbps: -82 dBm
5.5 Mbps: -85 dBm
2 Mbps: -87 dBm
1 Mbps: -90 dBm

### Performance Features

Clear Channel Select, dynamic rate shifting

### Installation, Configuration, and Management

Browser-based access point administration

Wireless-installation and device-discovery wizards

Pre-set defaults

Save and restore configuration files

### LED Indicators

Power; LAN port status—link, speed, and activity;

WLAN port status—link, activity; Alert/diagnostics

### Dimensions and Weight

*Height:* 2.5 cm (1 in)
*Width:* 22 cm (8.7 in)
*Depth:* 13.5 cm (5.3 in)
*Weight:* 592 g (1.3 lb)

### Power

Supplied with external OfficeConnect power adapter:

*Operating input voltage:* 10–30V

*Operating frequency:* 47–63Hz

*Maximum power consumption:* 6.5W

### Regulatory/Agency Approvals

*Safety:* UL 1950, EN 60950

CSA 22.7 #950, IEC 60950

*Emissions:* EN 55022 Class B, EN 55024, FCC Part 15, Class B

ICES-003 Class B, CNS 13438 Class A

*Environmental:* EN 60068 (IEC 68), UL Listed—CSA certified

### Environmental Range

*Operating temperature:*
0° to 40°C (32° to 105°F)

*Non-operating temperature:*
-40° to 70°C (-40° to 158°F)

*Operating humidity:*
0 to 90% non-condensing

### Package Contents

- OfficeConnect Wireless 11g Access Point
- OfficeConnect power adapter
- Quick Start Guide
- CD ROM containing Access Point Discovery program and user guide
- One straight-through category 5 UTP patch cable
- Four rubber feet

## 3Com OfficeConnect 11g PC Card-Specific Specifications

### System Requirements

Notebook PC with an available Type II or Type III 32-bit PC Card slot (3.3V)

Notebook PC must be running Windows XP/Me/2000/98 SE

### Drivers/Supported Operating Systems

*NDIS 5:* Me, 2000, 98 SE

*NDIS 5.1:* Windows XP

### Receive Sensitivity

*802.11g*
54 Mbps: -67.6 dBm
48 Mbps: -69.6 dBm
36 Mbps: -78.8 dBm
24 Mbps: -79.8 dBm
18 Mbps: -85.4 dBm
12 Mbps: -85.6 dBm
9 Mbps: -88.5 dBm
6 Mbps: -88.0 dBm

*802.11b*
11 Mbps: -82.8 dBm
5.5 Mbps: -78.8 dBm
2 Mbps: -89.9 dBm
1 Mbps: -89.9 dBm

### Installation, Configuration, and Management

Wireless Card Manager

Pre-set defaults

### LED Indicators

Link; Activity

### Dimensions

*Height:* 11.3 cm (3.9 in)
*Width:* 5.4 cm (2.8 in)
*Depth:* 0.5 mm (0.2 in)

### Operating Voltage

3.0V–3.6V

### Regulatory/Agency Approvals

*Safety:* UL/CSA 60950, EN 60950

*Emissions:* FCC Part 15.247, RSS-210, EN 300 328-2, FCC Part 15 Subpart B, (SAR) FCC OET Bulletin 65, RSS-102, prEN 50371

*Environmental:* EN 301 489-17

### Environmental Range

*Operating temperature:*
0° to 50°C (32° to 122°F)

*Operating humidity:*
0 to 90% non-condensing

### Package Contents

- PC Card
- Quick start guide
- CD-ROM containing PC Card drivers, installation and diagnostics software, and online documentation

# Specifications,
*continued*

## Common Specifications

**Data Rates**

*802.11g:* 54, 48, 36, 24, 18, 12, 9, and 6 Mbps

*802.11b:* 11, 5.5, 2, and 1 Mbps

**Frequency Band**
2.4-2.4835 GHz

**Wireless Medium**
Direct Sequence Spread Spectrum (DSSS)

**Media Access Protocol**
CSMA/CA

**Operating Channels**
5-7 (Israel)

10-13 (France, Jordan)

1-11 (U.S., Argentina, Brazil, Canada, Columbia, Mexico, Taiwan)

1-13 (elsewhere worldwide)

**Operating Range**

*Indoor maximum:* 100 meters (328 feet)

*Outdoor maximum:* 457m (1,499 feet)

**Security**
256-bit WPA encryption

40/64-bit and 128-bit WEP shared-key encryption

**Standards Conformance**
Wi-Fi 802.11b and WPA certified, IEEE 802.11b,

Draft-standard IEEE 802.11g

**Warranty and Non-Warranty Services**
One-year hardware warranty for access point and PC Card.

Refer to **www.3com.com** for details.

# Ordering Information

| | |
|---|---|
| 3Com OfficeConnect Wireless 11g Access Point | 3CRWE454G72 |
| 3Com OfficeConnect Wireless 11g PC Card | 3CRWE154G72 |

**The 3Com OfficeConnect Wireless 11g Access Point and 3Com OfficeConnect Wireless 11g PC Card can be used with these 3Com products:**

| | |
|---|---|
| 3Com OfficeConnect 11g Gateway | 3CRWE554G72 |
| 3Com 11 Mbps Wireless LAN Workgroup Bridge | 3CWE83096A |
| 3Com OfficeConnect 11 Mbps Wireless Access Point | 3CRWE41196 |
| 3Com OfficeConnect 11 Mbps Wireless Cable/DSL Gateway | 3CRWE52196 |
| 3Com OfficeConnect 11 Mbps Wireless LAN CardBus PC Card | 3CRSHPW796 |
| 3Com OfficeConnect 11 Mbps Wireless LAN PC Card with XJACK® Antenna | 3CRSHPW196 |
| 3Com OfficeConnect 11 Mbps Wireless LAN USB Adapter | 3CRSHEW696 |

The 11g Access Point and PC Card are not approved for sale in all countries.

# 3COM

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